COMPARATIVE IMMUNOLOGY, MICROBIOLOGY AND INFECTIOUS DISEASES

Editor-in-Chief
CHARLES PILET
Alfort, France

VOLUME 22, 1999
VOLUME CONTENTS AND AUTHOR INDEX



COMPARATIVE IMMUNOLOGY, MICROBIOLOGY AND INFECTIOUS DISEASES

The International Journal for Medical and Veterinary Researchers and Practitioners

Editor-in-Chief

PROFESSOR CHARLES PILET Ecole Nationale Vétérinaire d'Alfort, 7 avenue du Général de Gaulle 94704 Maisons-Alfort Cedex, France

Regional Editors

Professor G. Castrucci Universita di Perugia Istituto di Malattie Infettive Facolta di Medicina Veterinaria Via S. Costanzo 4, 06100 Perugia, Italy DR B. I. OSBURN
Associate Dean-Research
School of Veterinary Medicine
University of California
Davis, CA 95616
U.S.A.

DR K. YAMANOUCHI Nippon Institute for Biological Science 2221-1 Shin-machi, Ome Tokyo 198 Japan

Editorial Advisory Board

DR A. BARTHA (Budapest, Hungary)
PROFESSOR J. BERNARD (Paris, France)
DR K. BETTLEHEIM (Melbourne, Australia)
PROFESSOR H. BLOBEL (Giessen, Germany)
PROFESSOR F. BURKI (Wien, Austria)
MR A. W. DUDLEY JR (Houston, TX, U.S.A.)
PROFESSOR P. GORET (St Mandé, France)
PROFESSOR J. GOUDSWAARD (Utrecht, The Netherlands)
DR R. B. GRIFFITHS (Rome, Italy)
DR I. IVANOV (Sofia, Bulgaria)
PROFESSOR D. W. JOHNSON (St Paul, MN, U.S.A.)
DR J. KRAL (Suchdol, Czech Republic)
PROFESSOR T. T. KRAMER (Ames, IA, U.S.A.)
DR B. LASALLE (College Park, MD, U.S.A.)

PROFESSOR B. B. MALLICK (Izatnagar, India)
DR N. P. MARKHAM (Wellington South, New Zealand)
DR Z. MATHYAS (Brno, Czech Republic)
PROFESSOR A. MAYR (München, Germany)
PROFESSOR H. MOLLARET (Allones, France)
DR J. M. PERSON (Maisons-Alfort, France)
PROFESSOR L. PESTI (Budapest, Hungary)
MR A. RITCHIE (Ames, IA, U.S.A.)
PROFESSOR J. H. STEELE (Houston, TX, U.S.A.)
PROFESSOR M. TRUSZCZYNSKI (Pulawy, Poland)
DR J. G. VAN BEKKUM (Lelystad, The Netherlands)
DR R. VITTOZ (Paris, France)
PROFESSOR J. T. WANG (Taiwan, Republic of China)

Author Service Department. For queries relating to the general submission of articles (including electronic text and artwork) and the status of accepted manuscripts, please contact the Author Service Department: E-mail: authors@elsevier.co.uk; Fax: +44 (0) 1865 843905; Tel: +44 (0) 1865 843900.

Advertising information. Advertising orders and enquiries can be sent to: USA, Canada and South America: Mr Tino de Carlo, The Advertising Department, Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010-5107, USA; phone: (+1) (212) 633 3815; fax: (+1) (212) 633 3820; e-mail: t.decarlo@elsevier.com. Japan: The Advertising Department, Elsevier Science K.K., 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5033; fax: (+81) (3) 5561 5047. Europe and ROW: Rachel Gresle-Farthing, The Advertising Department, Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) (1865) 843976; e-mail: r.gresle-farthing@elsevier.co.uk

Publication information: Comparative Immunology, Microbiology and Infectious Diseases (ISSN 0147-9571). For 1999, volume 22 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.nl/locate/cimid). Further information is available on this journal and other Elsevier Science products through Elsevier's website: (http://www.elsevier.nl). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

The Americas: Elsevier Science Customer Support Department, P.O. Box 945, New York, NY 10010, U.S.A. [Tel: (+1) 212-633-3730/1-888 4ES-INFO. Fax: (+1) 212-633-3680. E-mail: usinfo-f@elsevier.com]. Japan: Elsevier Science Customer Support Department, 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106, Japan [Tel: (+81) 3-5561-5033. Fax: (+81) 3-5561-5047. E-mail: kyf04035@niftyserve.or.jp]. Asia Pacific (excluding Japan): Elsevier Science (Singapore) Pte Ltd, No. 1 Temasek Avenue, 17-01 Millenia Tower, Singapore 039192 [Tel: (+65) 434-3727. Fax: (+65) 337-2230. E-mail: asiainfo@elsevier.com.sg]. Rest of the World: Elsevier Science Customer Service Department, P.O. Box 211, 1001 AE Amsterdam, The Netherlands [Tel: (+31) 20-485-3757. Fax: (+31) 20-485-3432. E-mail: nlinfo-f@elsevier.nl].

Periodicals postage is paid at Rahway, NJ. Comparative Immunology, Microbiology and Infectious Diseases (ISSN 0147-9571) is published 4 issues per year in January, April, July and October by Elsevier Science Ltd., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. The US subscription price is \$579.00 per year.

POSTMASTER: Send address corrections to: Comparative Immunology, Microbiology and Infectious Diseases, Elsevier Science, Customer Support Department, PO Box 945, New York, NY 10159-0945.

Distributed in the USA by Mercury Airfreight International, 365 Blair Road, Avenel, NJ 07001.

CONTENTS

Number 1

I. :	KELES,	A. K.	SHAI	RMA	١,	
Z.	WOLD	EHIWE	r and	R.	D.	MURRAY

1 The effects of bovine respiratory syncytial on normal ovine lymphocyte responses to mitogens or antigens in vitro

J. N. DHULEY and S. R. NAIK

15 Moderate protective effect of 6-MFA, a microbial metabolite obtained from *Aspergillus ochraceus* on immunological liver injury in mice

P. Roy and A. T. VENUGOPALAN

- 27 Dot-enzyme linked immunosorbent assay for demonstration of Newcastle disease virus infection
- K. SZULOWSKI, W. IWANIAK, J. PILASZEK, M. TRUSZCZYŃSKI and M. CHROBOCIŃSKA
- 33 The ELISA for the examination of hare sera for anti-Brucella antibodies

L. ZENNER

- 41 Pathology, diagnosis and epidemiology of the rodent *Helicobacter* infection
- S. Hoshi, A. Uchino, N. Saito, K.-I. Kusanagi, T. Ihara and S. Ueda
- 63 Comparison of adjuvants with respect to serum IgG antibody response in orally immunized chickens
- S. S. Baba, A. H. Fagbami and C. K. Ojeh
- 71 Preliminary studies on the use of solid-phase immunosorbent techniques for the rapid detection of Wesselsbron virus (WSLV) IgM by haemagglutination-inhibition

Number 2

S. NANDI and B. S. NEGI

81 Bovine ephemeral fever: a review

TANUJA E. GUPTE, UTTAMRAO V. GAIKWAD and SURESH R. NAIK

- 93 Experimental studies (in vitro) on polyene macrolide antibiotics with special reference to hamycin against *Malassezia ovale*
- A. Panshin, E. Shihmanter, Y. Weisman, C. Örvell and M. Lipkind
- 103 Comparative characteristics of the Israeli Newcastle disease virus field strains by means of a wide panel of monoclonal antibodies against hemagglutinin-neuraminidase glycoprotein

- A. MATEO, J. J. GARRIDO, J. PÉREZ DE LA LASTRA, J. MARTÍN DE LAS MULAS, A. MORENO, C. O. PINTADO and D. LLANES
- 125 A new epitope on sheep CD45R molecule detected by a monoclonal antibody
- M. TEMPESTA, A. PRATELLI, M. CORRENTE and C. BUONAVOGLIA
- 137 A preliminary study on the pathogenicity of a strain of caprine herpesvirus-1
- Anselmo C. Odeón, Laurel J. Gershwin and Bennie I. Osburn
- 145 IgE responses to bluetongue virus (BTV) serotype 11 after immunization with inactivated BTV and challenge infection
 - I PatentsAlert

Number 3

- JACEK OSEK, PETER GALLIEN, MARIAN TRUSZCZYÑSKI and DIETER PROTZ
- 163 The use of polymerase chain reaction for determination of virulence factors of *Escherichia coli* strains isolated from pigs in Poland
- KHALIFA SIFAW GHENGHESH, SALAHEDDIN S. ABEID, MOAID M. JABER and SAMIA A. BEN-TAHER
- 175 Isolation and haemolytic activity of *Aeromonas* species from domestic dogs and cats
- L. SKOURA, A. EFSTRATIOU,
 A. TSAKRIS, S. POURNARAS,
 R. C. GEORGE and J. DOUBOYAS
- 181 Study on the use of an enzyme-linked immunosorbent assay in determining human antibodies to diphtheria toxin as compared with a reference toxin neutralization assay
- A. RAMINA, L. DALLA VALLE, S. DE MAS, E. TISATO, A. ZUIN, M. RENIER, V. CUTERI, C. VALENTE and F. M. CANCELLOTTI
- 187 Detection of equine arteritis virus in semen by reverse transcriptase polymerase chain reaction—ELISA
- LÁSZLÓ EGYED, GYÖRGY BERENCSI and Adorján Bartha
- 199 Periodic reappearance of bovine herpesvirus type 4 DNA in the sera of naturally and experimentally infected rabbits and calves
- K. Belák, L. Kucsera, C. Ros, G. Kulcsár, L. Makranszki, T. Soós and S. Belák
- 207 Studies on the pathogenicity of bovine herpesvirus type 5 in sheep
 - I PatentsAlert

Number 4

D. AGBODAZE

- 221 Verocytotoxins (Shiga-like toxins) produced by Escherichia coli: a minireview of their classification, clinical presentations and management of a heterogeneous family of cytotoxins
- J. R. REDDY, J. KWANG, V. VARTHAKAVI, K. F. LECHTENBERG and H. C. MINOCHA
- 231 Semiliki forest virus vector carrying the bovine viral diarrhea virus NS3 (p80) cDNA induced immune responses in mice and expressed BVDV protein in mammalian cells
- P. ZEMAN and J. JANUŠKA
- 247 Epizootiologic background of dissimilar distribution of human cases of Lyme borreliosis and tick-borne encephalitis in a joint endemic area
- B. Krsnik, R. Yammine, Ž. Pavičić, T. Balenović, B. Njari, I. Vrbanac and I. Valpotić
- 261 Experimental model of enterotoxigenic *Escherichia* coli infection in pigs: potential for an early recognition of colibacillosis by monitoring of behavior

I PatentsAlert

